
SISAT

School of Information Systems & Technology
Faculty of Informatics

ISIT111 Programming Concepts Subject Outline Spring Session 2009

Head of School –Associate Professor Peter Hyland, Student Resource Centre, Tel: (02) 4221 3606

GENERAL INFORMATION

Subject Coordinator

Telephone Number:

Email:

Location:

Dr Mark Sifer

4221 4919

msifer@uow.edu.au

39.219

Dr Sifer's consultation times during session:

Day

Tuesday

Wednesday

Time

9:30 – 11:00

9:30 – 10:30 and 13:30 – 15:00

Lecturer

Telephone Number:

Email:

Location:

Assoc/Prof Peter Hyland

4221 3759

phyland@uow.edu.au

39.114A

Lecturer's consultation times during session:

Day

Tuesday

Tuesday

Friday

Time

10:30 – 12:30

13:30 – 14:30

9:30 – 10:30

Subject Organisation

Session:

Credit Points

Contact hours per week:

Lecture Times & Location:

Tutorial Day, Time and Location can be found at:

Spring Session, Wollongong Campus

6 credit points

2hr lectures, 2hr lab

Friday 10:30 AM – 12:30 PM 67.302

<http://www.uow.edu.au/student/timetables/index.html>

Students should check the subject's web site regularly as important information, including details of unavoidable changes in assessment requirements will be posted from time to time via e-Learning space <http://www.uow.edu.au/student/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Description

The broad aim of this subject is to develop in students an understanding of the fundamental principles of programming as well as to develop skills in the design and implementation of well structured algorithms to a range of classical, business computing problems.

Subject Objectives

On successful completion of this subject, students should be able to: create and manipulate computer files; correctly design solution algorithms using structure charts and pseudocode; understand and apply the syntactic and semantic rules of a structured programming language; understand and apply tools and techniques for program testing; understand the use of programming standards, the concepts involved in compilation, linking and execution; understand and apply the concepts of data types and structures.

Graduate Qualities

This subject will continue to the following graduate qualities:

- Informed
- Independent learners
- Problem solvers
- Effective communicators
- Responsible
- Innovation and Design

Further information can be found at:

<http://www.uow.edu.au/informatics/sisat/current/SubjectInformation/UOW051055.html>

Attendance Requirements:

It is the responsibility of students to attend all lectures/tutorials/labs/seminars/ practical work for subjects for which you are enrolled. It should be noted that the amount of time spent on each 6 credit point subject should be at least 12 hours per week, which includes lectures/tutorials/labs etc.

Satisfactory attendance is deemed by the University, to be attendance at approximately 80% of the allocated contact hours.

Attendance rolls will be kept for lectures and laboratories. If you are present for less than 80% of laboratories and would have otherwise passed you need to apply for student academic consideration, otherwise a TF (technical fail) grade will be recorded.

Students **MUST** attend their **allocated** laboratory unless they have the written permission of the subject coordinator.

Method of Presentation:

In order to maximize learning outcomes, it is strongly recommended that students attend all lectures.

Lecture Schedule: A proposed Lecture schedule for the subject is as follows:

Week	Topic	Reading
1	Subject objectives and learning outcomes and Introduction to computing and programming	Chapter 1,2 (Doyle)
2	Methods and variables I	Chapter 3,4 (Doyle)
3	Methods and variables II	
4	Lists and parameters I	Chapter 4 (Doyle)
5	Lists and parameters II	
6	Logic, loops and arrays I	Chapter 5,6,7 (Doyle)
7	Logic, loops and arrays II	
8	mid-term exam in lecture + Objects and references	
9	Defining a class (attributes)	Chapter 10 (Doyle)
10	Mid Session Recess (1 week)	
11	Defining a class (methods)	
12	Windows form programming I	Chapter 8 (Doyle)
13	Windows form programming II	

--	--	--

Changes to the above schedule will be posted via e-Learning space <http://www.uow.edu.au/student/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Materials:

Any readings/references are recommended only and are not intended to be an exhaustive list. Students are encouraged to use the library catalogue and databases to locate additional readings

Textbook(s):

C# Programming: From Problem Analysis to Program Design, Barbara Doyle, 2nd Edition, Thomson, 2008.

Other Resources:

Visual C# Developer Center: <http://msdn.microsoft.com/vcsharp/>
Students should also use the Internet, library catalogue and databases to locate additional resources.

Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	GROUP/ INDIVIDUAL	DUE DATE
Week 3 Laboratory Assignment	5%	Individual	Week 3 – marked in Lab
Week 5 Laboratory Assignment	5%	Individual	Week 5 – marked in Lab
Week 7 Laboratory Assignment	5%	Individual	Week 7 – marked in Lab
Week 8 Mid-term Exam: Questions will include reading, writing and/or modifying computer code. Marking will be based correctness, organization and program style.	10%	Individual	Week 8 – in lecture
Week 9 Laboratory Assignment	5%	Individual	Week 9 – marked in Lab
Week 11 Laboratory Assignment	5%	Individual	Week 11 – marked in Lab
Week 13 Laboratory Assignment	5%	Individual	Week 13 – marked in Lab
Final Exam: Questions will include reading, writing and/or modifying computer code. Marking will be based on correctness, organization and program style. More detail will be given in the final lecture in Week 13	60%	Individual	Exam Period

Notes on Assessment:

All assignments are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assignment.

Laboratory assignments will involve developing code and will be assessed on meeting the requirements of the laboratory, correctness, style and presentation. The ability to modify and answer questions about the submitted code may be tested. The lab assistants will mark each student’s work during the nominated lab. Lab assignments will only be marked during lab times.

The detailed rules for the marking of laboratory exercises and their due dates will be covered in the first lecture. In brief, a laboratory assignment has three levels of completion: advanced (up to 5 marks), standard (up to 4 marks) and core (3.25 marks). An assignment will only be marked for completion to advanced level on its due date. An assignment will only be marked for completion to standard level (at up to 4 marks) on its due date. An assignment may be marked for completion to standard level (at up to 3.75 marks) one week after its due date. An assignment may be marked for completion to core level (at 3.25 marks) on or after its due date. A student may submit at most one assignment for marking each laboratory session. A student must not submit assignment N for marking unless they have already completed assignment N – 1 to core level.

Assignments are marked during a time period to be announced by the subject coordinator (expected to be the second hour of each lab). Lab assignments will only be marked during the announced lab time periods.

Electronic Submission of Assessment Items:

Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

Submission of assessment items via email will not be accepted.

To be eligible for a Pass in this subject a student must achieve a mark of at least 40% in the final exam. Students who fail to achieve this minimum mark & would have otherwise passed will be given a TF (Technical Fail) for this subject.

Procedures for the return of assessment items:

Apart from the Final Exam and the mid-term exam, all student assessment and grading will occur during the laboratory sessions. Results from the mid-term exam will be released in Week 10. Results from the Final Exam will not be released.

Penalties for late submission of assessment items:

Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 100% of the assessment mark

Tutorial/Lab Closure Policy

If for any reason, the number of students in a tutorial or lab falls below a sustainable enrolment level, as determined by the Head of School, tutorials/labs offered for that subject may be collapsed or deleted.

You will have to attend the new tutorials/lab if this closure affects the one you are attending.

We will endeavour to make this decision no later than Week 4 of session.

Supplementary Exams

Supplementary Exams will be dealt with in accordance with student academic consideration policy (<http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>) 9.2 Timing of Supplementary Exams.

While the School normally grants supplementary exams when the student does not sit the standard exam for an acceptable reason, each case will be assessed on its own merit and there is no guarantee a supplementary exam will be granted. If a supplementary exam is granted, you will normally be notified via SOLS Mail the time and date of this supplementary exam. You must follow the instructions given in the email message.

Please note that if this is your last session and you are granted a supplementary exam, be aware that your results will not be processed in time to meet the graduation deadline.

Student Academic Consideration Policy

The School recognises that it has a responsibility to ensure equity and consistency across its subjects for all students. Sometimes, in exceptional circumstances, students need to apply for student academic consideration in order to complete all assessable work.

The University applies strict criteria to the granting of student academic consideration. Before applying for student academic consideration, students should carefully read the University's policy which can be found at: <http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>.

Plagiarism

When you submit an assessment task, you are declaring the following

1. It is your own work and you did not collaborate with or copy from others.
2. You have read and understand your responsibilities under the University of Wollongong's policy on plagiarism.
3. You have not plagiarised from published work (including the internet). Where you have used the work from others, you have referenced it in the text and provided a reference list at the end of the assignment.

Students must remember that:

Plagiarism will not be tolerated.

Students are responsible for submitting original work for assessment, without plagiarising or cheating, abiding by the University's policies on Plargiarism as set out in the University Handbook under University Policy Directory and in Faculty handbooks and subject guides. Plagiarism has led to the expulsion from the University.

Student Academic Grievance Policy

The School aims to provide a fair, equitable and productive learning environment for all its students. The Student Academic Grievance Policy seeks to support the achievement of this goal by providing a transparent and consistent process for resolving student academic grievances.

Any student who has a grievance over a result should obtain a Faculty of Informatics Appeal Against Decision or Action Affecting Academic Experience form from the Informatics Student Enquiry Centre. (<http://www.uow.edu.au/content/groups/public/@web/@inf/@faculty/documents/doc/uow017433.pdf>) The student should firstly take the form to the marker/lecturer to discuss the matter and, if the student is still not satisfied, s/he should take the next step as outlined on the form.

Once the grievance has been considered by the Faculty, if the student still feels the situation has not been fully resolved s/he may consult the Dean of Students. However, the Dean of Students can have no input into the academic judgment of the lecturer and can only review the grievance to ensure proper procedure has been followed.

Relevant University Policies, procedures and students services:

For more information students must refer to the Faculty handbook, online references or consult the UOW policy in full at <http://www.uow.edu.au/handbook/courserules/studacgrievpol.html> which contains a range of policies on educational issues and student matters.

This outline should be read in conjunction with the following documents:

Code of Practice - Teaching and Assessment http://www.uow.edu.au/handbook/codesofprac/teaching_code.pdf	Code of Practice - Students http://www.uow.edu.au/handbook/codesofprac/cop_students.html
Code of Practice-Honours http://www.uow.edu.au/handbook/CodeofPractice-Honours.pdf	Acknowledgement Practice Plagiarism will not be tolerated: http://www.uow.edu.au/handbook/courserules/plagiarism.html
Key Dates http://www.uow.edu.au/student/dates.html	Student Academic Consideration Policy: http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf
Course Progress Requirements: http://www.uow.edu.au/student/mrp/index.html	Graduate Qualities Policy: http://www.uow.edu.au/about/teaching/qualities/index.html#_The_new_UOW
Academic Grievance Policy (Coursework and Honours students) http://www.uow.edu.au/handbook/courserules/studacgrievpol.html	Non-Discriminatory Language Practice and Presentation http://staff.uow.edu.au/eed/nondiscrimlanguage.html
Occupational Health and Safety http://www.uow.edu.au/about/policy/ohs.html	Ownership of Work & Intellectual Property Policy: http://www.uow.edu.au/handbook/generalcourserules/UOW028651.html
Human Research Ethics Committee: http://www.uow.edu.au/research/rso/ethics/human/	Rules for student conduct: http://www.uow.edu.au/handbook/generalrules/StudentConductRules.pdf
Independent Learners' Introductory Program http://www.uow.edu.au/student/attributes/ilip/	Informatics Faculty Librarian, Ms Annette Meldrum, phone: 4221 4637, email: ameldrum@uow.edu.au
Student Support Services: http://www.uow.edu.au/student/services/ Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginie Schmelitschek, phone 4221 3833, virginie@uow.edu.au	SISAT Internet Access & Student Resource Centre http://www.uow.edu.au/informatics/sisat/current/uow024466.html
SISAT Computer Usage Rules http://www.uow.edu.au/informatics/sisat/current/uow024457.html	SISAT Subject Outlines http://www.uow.edu.au/informatics/sisat/current/UOW055502.html